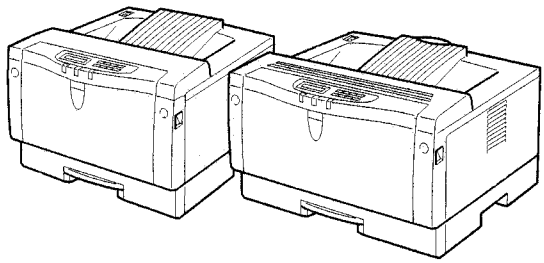
savin®

Laser Printers

SLP14/SLP20

Operator's Manual



S1141

Introduction

This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual. Please keep this manual in a handy place near the machine.

Please read the Safety Information before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Notes:

The model names of the machines do not appear in the following pages. Check the model name of your machine before reading this manual. (For details, see P.2 *"Type 1 Printer"*, P.5 *"Type 2 Printer"*.)

Descriptions in this manual	Model name
Type 1 Printer	**SAVIN SLP20**
Type 2 Printer	**SAVIN SLP14**

Descriptions without the note for identifying the type of the printer are common for both models. Certain types might not be available in some countries. For details, please contact your local dealer.

Power Source

SAVIN SLP20: 120 V, 60 Hz, 8.0 A or more

SAVIN SLP14: 120 V, 60 Hz, 6.0 A or more

Please be sure to connect the power cord to a power source as above.

Operator Safety:

This machine is considered a CDRH class I laser device, safe for office/ EDP use. The machine contains 5-milliwat, 760 - 800 nanometer wavelength, GaAlAs laser diode. Direct (or indirect reflected) eye contact with the laser beam might cause serious eye damage. Safety precautions and interlock mechanisms have been designed to prevent any possible laser beam exposure to the operator.

Laser Safety:

The Center for Devices and Radiological Health (CDRH) prohibits the repair of laser-based optical unit in the field. The optical housing unit can only be repaired in a factory or at a location with the requisite equipment. The laser subsystem is replaceable in the field by a qualified Customer Engineer. The laser chassis is not repairable in the field. Customer engineers are therefore directed to return all chassis and laser subsystems to the factory or service depot when replacement or the optical subsystem is required.

Important

Parts of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Caution:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Do not attempt any maintenance or troubleshooting other than that mentioned in this manual. This machine contains a laser beam generator and direct exposure to laser beams can cause permanent eye damage.

Two kinds of size notation are employed in this manual. With this machine refer to the Inch version.

Savin shall not be responsible for any damage or expense that might result from the use of parts other than genuine Savin parts in your Savin office product.

For good copy quality, Savin recommends that you use genuine Savin toner.

Trademarks

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IPS-PRINT™ Printer Language Emulation© Copyright 1988-1997, XIONICS DOCUMENT TECHNOLOGIES, INC., All Rights Reserved

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Notes:

Some illustrations might be slightly different from your machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

Notes:

The proper names of the Windows operating systems are as follows:

- Microsoft® Windows® 95 operating system
- Microsoft® Windows® 98 operating system
- Microsoft® Windows® for Workgroups operating system Version 3.11
- Microsoft® Windows NT® Server network operating system Version 4.0
- Microsoft® Windows NT® Workstation operating system Version 4.0

Safety Information

When using your equipment, the following safety precautions should always be followed.

Safety During Operation

In this manual, the following important symbols are used:

⚠ ***WARNING:***
Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

⚠ ***CAUTION:***
Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

⚠ ***WARNING:***

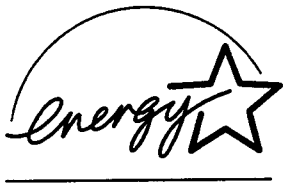
- ***Connect the power cord directly into a wall outlet and never use an extension cord.***
- ***Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.***
- ***To avoid hazardous electric shock or laser radiation exposure, do not remove any covers or screws other than those specified in this manual.***
- ***Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following conditions exists:***
  - ***You spill something into the equipment.***
  - ***You suspect that your equipment needs service or repair.***
  - ***Your equipment's cover has been damaged.***
- ***Do not incinerate spilled toner or used toner. Toner dust might ignite when exposed to an open flame.***
- ***Disposal can take place at our authorized dealer or at appropriate collection sites.***
- ***If you dispose of the used toner containers yourself, dispose of them according to your local regulations.***

⚠ *CAUTION:*

- *Protect the equipment from dampness or wet weather, such as rain, snow, and so on.*
- *Unplug the power cord from the wall outlet before you move the equipment. While moving the equipment, you should take care that the power cord will not be damaged under the equipment.*
- *When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).*
- *Do not allow paper clips, staples, or other small metallic objects to fall inside the equipment.*
- *Do not eat or swallow toner.*
- *Keep toner (used or unused) and toner cartridge out of reach of children.*
- *For environmental reasons, do not dispose of the equipment or expended supply's wastes at a household waste a collection point. Disposal can take place at our authorized dealer or at an appropriate collection site.*
- *Our products are engineered to meet the highest standards of quality and functionality. When purchasing expendable supplies, we recommend using only those specified by an authorized dealer.*
- *The inside of the machine could be very hot. Do not touch the parts with a label indicating the "hot surface". Otherwise, it could cause a personal burn.*

ENERGY STAR Program

ENERGY STAR®



As an ENERGY STAR Partner, we have determined that this machine model meets the ENERGY STAR Guidelines for energy efficiency.

The ENERGY STAR Guidelines intend to establish an international energy-saving system for developing and introducing energy-efficient office equipment to deal with environmental issues, such as global warming.

When a product meets the ENERGY STAR Guidelines for energy efficiency, the Partner shall place the ENERGY STAR logo onto the machine model.

This product was designed to reduce the environmental impact associated with office equipment by means of energy-saving features, such as Low-power mode.

The ENERGY STAR Guidelines intend to establish an international energy-saving system for developing and introducing energy-efficient office equipment to deal with environmental issues, such as global warming.

This product was designed to reduce the environmental impact associated with office equipment by means of energy-saving features, such as Low-power mode.

❖ Low-power mode (Energy Saver mode)

This printer automatically lowers its power consumption 30 minutes after the last operation has been completed. To exit Low-power (Energy Saver) mode, press any key on the operation panel. To change the setting of the Energy Saver mode, see P.121 *"Making Printer Settings with the Operation Panel"*.

❖ Specifications

		Type 1 Printer *1	Type 2 Printer *1
Lower-power mode (Energy Saver mode)	Power Consumption	30 W or less	
	Default Time	30 minutes	
	Recovery Time	39 seconds or less	39 seconds or less

*1 Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printeror Type 2 Printer) you have.

Recycled Paper

Please contact your sales or service representative for recommended recycled paper types that may be used in this machine.

Manuals for Your Printer

Manuals for Your Printer

There are two manuals that describe the procedures separately for the installation of your printer and for the operation and maintenance of your printer and its optional equipment.

To enhance safe and efficient operation of your printer, all users should read and follow the instructions contained in the following manuals.

- **Quick Installation Guide**
  Describes the procedures for installing your printer.

- **Operating Instructions**
  Describes the procedures and necessary information on setting up and using your printer and its optional equipment. (This Manual)

How to Read this Manual

Symbols

In this manual, the following symbols are used:

⚠ ***WARNING:***
This symbol indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

⚠ ***CAUTION:***
This symbol indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

* The statements above are notes for your safety.

Important
If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

Preparation
This symbol indicates the prior knowledge or preparations required before operating.

Note
This symbol indicates precautions for operation, or actions to take after misoperation.

Limitation
This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

Reference
This symbol indicates a reference.

[ ]
Keys that appear on the machine's panel display.
Keys and buttons that appear on the computer's display.

[ ]
Keys built into the machine's operation panel.
Keys on the computer's keyboard.

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1. Getting Acquainted

Features of Your Printer

Your printer is designed especially for office work groups, both for shared usage within network environment, and for one-to-one usage by being connected directly to your computer.

❖ Time Saving

Superior features save time you spend on your print tasks.

- Fast Print Speed [*1]: 20 ppm (Type 1 printer) and 14 ppm (Type 2 printer)
  [*1] A4, $8^1/_2$" × 11", maximum printing speed from a standard paper tray.
- All Front Operation: From the front side, you can replace the toner cartridge, check indicators, and clear a paper misfeed if it occurs.

❖ Compact Body

Its compact body requires minimum space to place it on your desk or desk side.

❖ Network Connectivity

Your printer is network ready with the optional Network Interface Board Type 2000.

❖ Major Specifications

	Type 1 Printer [*1]	Type 2 Printer [*1]
Printing Speed	20 pages per minute [*2]	14 pages per minute [*3]
Maximum Print Quality	True 1200 × 1200dpi resolutions (PCL 6, PS)	
Emulations	PCL 5e, PCL 6, PostScript® Level 2	
Maximum Input Paper Size	Paper Tray and Bypass Tray: A3, 11" × 17"	Paper Tray: A4, $8^1/_2$" × 11" (Letter) Bypass Tray: A4, $8^1/_2$" × 14" (Legal)
Standard Memory Size	8MB	8MB
Maximum Memory Size with Optional Memory	40MB	40MB

[*1] Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printeror Type 2 Printer) you have.
[*2] A4, $8^1/_2$" × 11"
[*3] A4, $8^1/_2$" × 11"

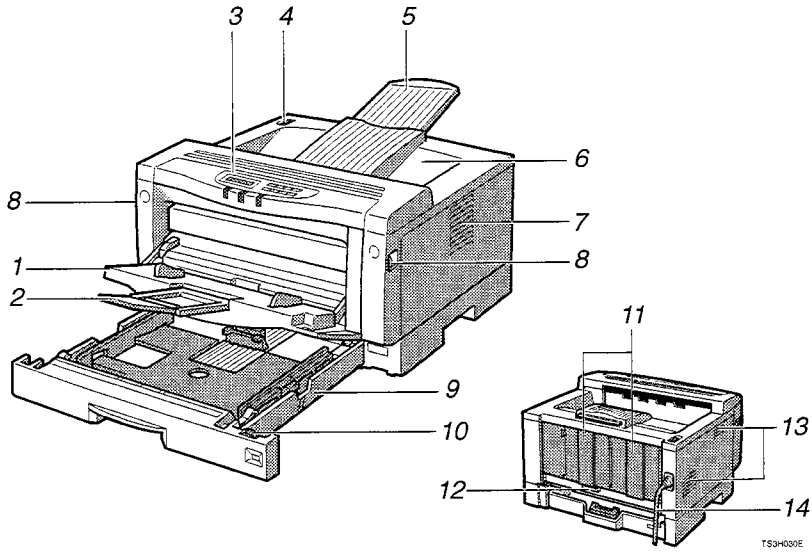
Guide to the Printer

Type 1 Printer

Type 1 Printer: Exterior

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



1. Bypass tray

Use to print onto thick paper, OHP transparencies, adhesive labels, custom size paper, and envelopes as well as plain paper. When printing on custom paper size, printer driver's settings are required.

Up to 100 sheets of plain paper (80 g/m^2, 20 lb) can be loaded.

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

⇒ P.79 *"Type 1 Printer: Loading Paper in the Bypass Tray"*

2. Bypass Tray Extender

Pull out this extender to load paper into the bypass tray when its length is longer than A4⬓ or 8$^1/_2$" x 11"⬓.

3. Operation Panel

Contains keys for printer operation and a panel display that shows the printer status.

4. Power Switch

Use this switch to turn the printer power on and off.

5. Output Tray Extender

Pull out this extender when printing on long paper.

6. Output Tray

Printed output is stacked here with the print side face down.

7. Ventilator

These holes help to keep components inside the printer from overheating.

Important

❒ Do not leave the ventilator obstructed or blocked. Doing so creates the danger of malfunction due to overheating.

8. Front Cover Release Buttons

Use these buttons to open the front cover.

9. Paper Tray

Loads up to 250 sheets of plain paper (80 g/m^2, 20 lb) into this tray for printing.

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

10. Paper Size Dial

Adjust this dial to match the size and feed direction of the paper loaded in the paper tray.

11. Back Plates

Remove to install some options.

12. Parallel Interface Connector

Plug into the interface cable that connects the printer to your computer.

13. Ventilators

These holes help to keep components inside the printer from overheating.

Important

❒ Do not leave the ventilators obstructed or blocked. Doing so creates the danger of malfunction due to overheating.

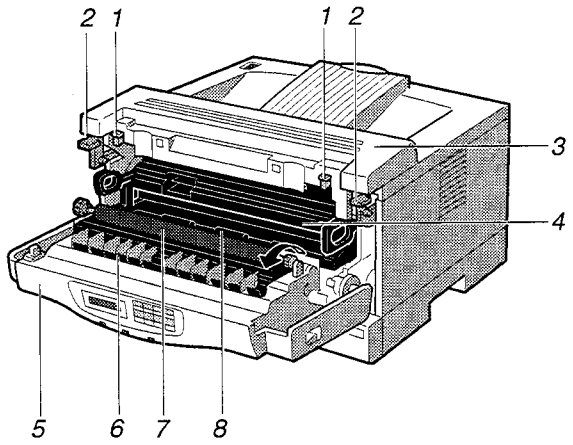
14. Power Cord

Plug this cord into a wall outlet.

Type 1 Printer: Interior

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



1. Pressure Release Levers (blue)

Push down these levers when removing misfed paper.

2. Fusing Unit Lock Levers (brown)

Push down these levers when replacing the fusing unit.

3. Fusing Unit

Fuses the image onto the paper.

When "Replace Maintenance Kit" appears on the panel display, replace this unit.

4. Toner Cartridge

Includes toner and a photoconductor unit.

5. Front Cover

Open this cover when accessing the inside of the printer.

6. Transfer Roller Cover

Open this cover when replacing the transfer roller.

7. Transfer Roller

When "Replace Maintenance Kit" appears on the panel display, replace this roller.

8. Registration Roller

Feeds the paper. If it becomes dirty, clean it.

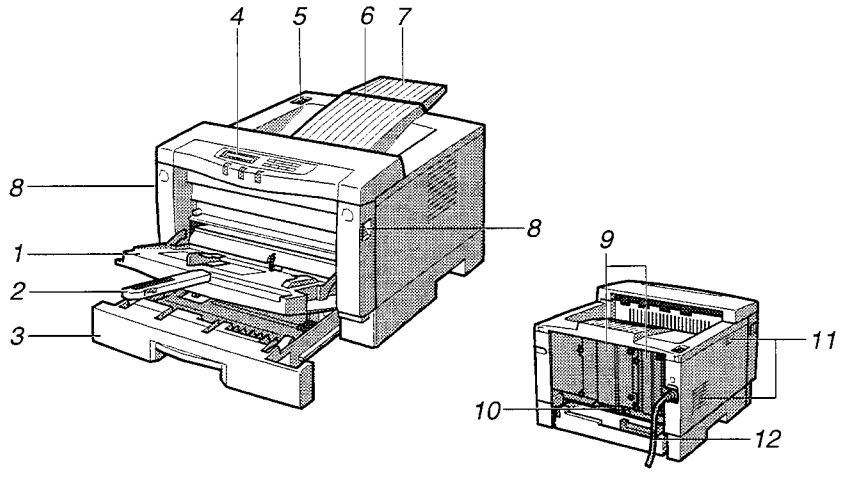
⇒ P.119 *"Cleaning the Registration Roller (Type 1 Printer only)"*

Type 2 Printer

Type 2 Printer: Exterior

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



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1. Bypass Tray

Use to print onto thick paper, OHP transparencies, adhesive labels, custom size paper, and envelopes as well as plain paper. When printing on custom paper size, printer driver's settings are required.

Up to 100 sheets of plain paper (80 g/m^2, 20 lb) can be loaded.

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

⇒ P.87 *"Type 2 Printer: Loading Paper in the Bypass Tray"*

2. Bypass Tray Extender

Pull out this extender to load paper into the bypass tray when its length is longer than B5 ▯ or $5^1/_2$" x $^1/_2$" ▯.

3. Paper Tray

Loads up to 250 sheets of plain paper (80 g/m^2, 20 lb) into this tray for printing.

⇒ P.63 *"Paper and Other Media Supported by Your Printer"*

4. Operation Panel

Contains keys for printer operation and a panel display that shows the printer status.

5. Power Switch
Use this switch to turn the printer power on and off.

6. Output Tray
Printed output is stacked here with the print side face down.

7. Output Tray Extender
Printed output is stacked here with the print side face down.

8. Front Cover Release Buttons
Use these buttons to open the front cover.

9. Back Plates
Remove to install some options.

10. Parallel Interface Connector
Plug into the interface cable that connects the printer to your computer.

11. Ventilators
These holes help to keep components inside the printer from overheating.

Important

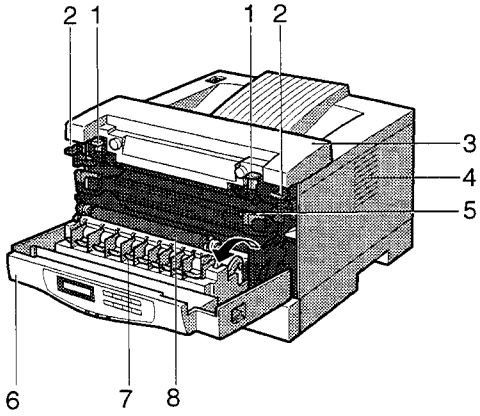
❒ Do not leave the ventilators obstructed or blocked. Doing so creates the danger of malfunction due to overheating.

12. Power Cord
Plug this cord into a wall outlet.

Type 2 Printer: Interior

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



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1. Pressure Release Levers (blue)

Push down these levers when removing misfed paper.

2. Fusing Unit Lock Levers (brown)

Push down these levers when replacing the fusing unit.

3. Fusing Unit

Fuses the image onto the paper.

When "Replace Maintenance Kit" appears on the panel display, replace this unit.

4. Ventilator

This hole helps to keep components inside the printer from overheating.

Important

- ❐ Do not leave the ventilator obstructed or blocked. Doing so creates the danger of malfunction due to overheating of components inside the printer.

5. Toner Cartridge

Includes toner and a photoconductor unit.

6. Front Cover

Open this cover when accessing the inside of the printer.

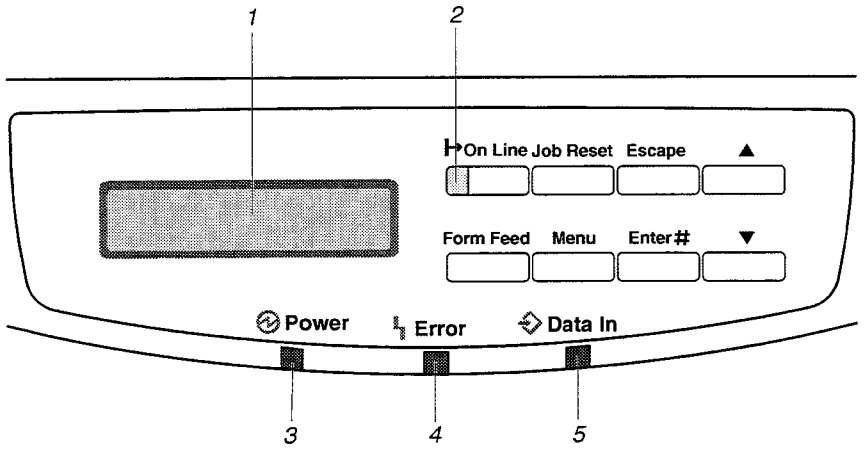
7. Transfer Roller Cover

Open this cover when replacing the transfer roller.

8. Transfer Roller

When "Replace Maintenance Kit" appears on the panel display, replace this roller.

Operation Panel



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1. Panel Display

The display shows the current status of the printer and error messages.

⇒ P.95 *"Error & Status Messages on the Operation Panel"*

2. On Line indicator

Tells you whether the printer is on-line or off-line.

Stays on while the printer is on-line (a state in which the printer can receive data from the computer).

Stays off when the printer is off-line (a state in which printer can not receive data).

3. Power indicator

Stays on while the printer power is on. Stays off when the power is turned off or while the printer is in the Energy Saver save mode.

4. Error indicator

Blinks or lights up whenever any printer error occurs. A message describing the cause of the error also appears on the panel display.

⇒ P.95 *"Error & Status Messages on the Operation Panel"*

5. Data In indicator

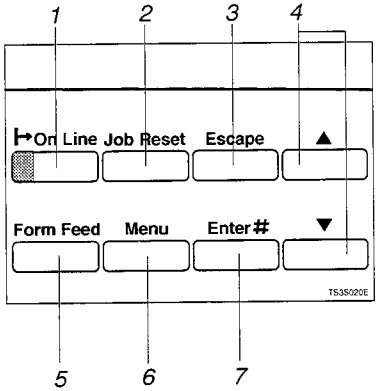
Blinks while the printer is receiving data from a computer.

Stays on if there is data to be printed.

Keys

Important

❒ Pressing any operation key while the **Data In** indicator is blinking or stays on may cause data in the printer to be lost.



1. [On Line] key

Press this key to switch the printer between on-line and off-line conditions.

2. [Job Reset] key

Pressing this key when the printer is on-line cancels the ongoing print job. ⇒ P.59 *"Canceling a Print Job"*

3. [Escape] key

Press this key to return to the previous condition on the panel display.

4. [▲][▼] keys

Use these keys to increase or decrease values on the panel display when making settings.

5. [Form Feed] key

Pressing this key during the off-line condition prints out all the data left in the printer's input buffer.

Note

❒ This is doesn't work in the on-line condition.

6. [Menu] key

Press this key to make and check the current printer settings. ⇒ P.121 *"Making Printer Settings with the Operation Panel"*

7. [Enter] key

Press this key to execute menu items selected on the panel display.

Press this key to clear some errors.⇒ P.95 *"Troubleshooting"*

2. Installing Options

⚠ ***CAUTION:***

- *Make sure to turn off the printer and wait for about 30 minutes before installing options. Not waiting for the printer to cool down can result in a burn.*
- *When lifting the machine, use the inset grips on both sides of the machine. Otherwise, the machine might fall and cause personal injury.*
- *When you move the machine, unplug the power cord from the wall outlet to avoid a fire or an electric shock.*

❖ Option List

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

	Type 1 Printer	Type 2 Printer
Paper Feed Unit (DLT) Type 2000 *1	○	
Paper Feed Unit (LT) Type 2000 *1	○	
Paper Feed Unit Type 1400 *2		○
Envelope Feeder Type 2000 *3	○	
Envelope Feeder Type 1400 *4		○
Network Interface Board Type 2000	○	○
Memory Unit Type 204 (16MB)	○	○
Memory Unit Type 204 (32MB)	○	○

○ : This option can be installed.

*1 Type 1 Printer: You can install any combination of these units. Up to two paper feed unit can be installed to your printer at a time.
*2 Type 2 Printer: Only one paper feed unit can be installed at a time.
*3 This requires the installation of the Paper Feed Unit Type 2000.
*4 This requires the installation of the Paper Feed Unit Type 1400.

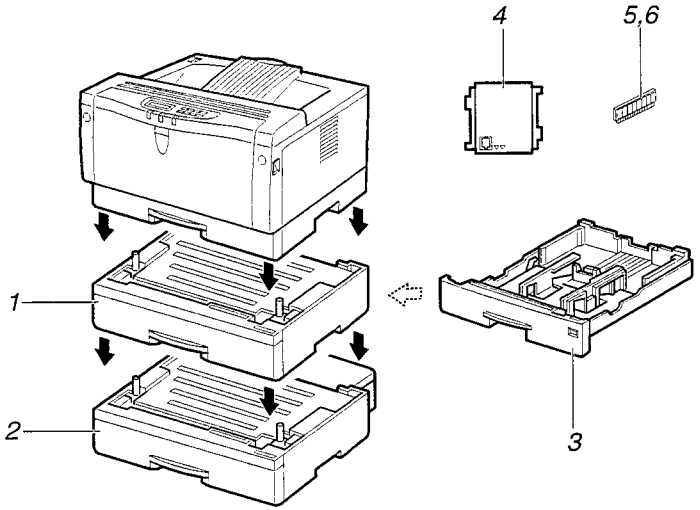
Available Options

The following options can be installed to your printer.

❖ For Type 1 Printer

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



1. **Paper Feed Unit (LT) Type 2000**
2. **Paper Feed Unit (DLT) Type 2000**
3. **Envelope Feeder Type 2000**
4. **Network Interface Board Type 2000**
5. **Memory Unit Type 204 (16MB) (SIMM)**
6. **Memory Unit Type 204 (32MB) (SIMM)**

Note

❒ It is impossible to install more than two paper feed units to your printer at a time.

❒ Any combination of Paper Feed Unit (LT) Type 2000 and Paper Feed Unit (DLT) Type 2000 is available.

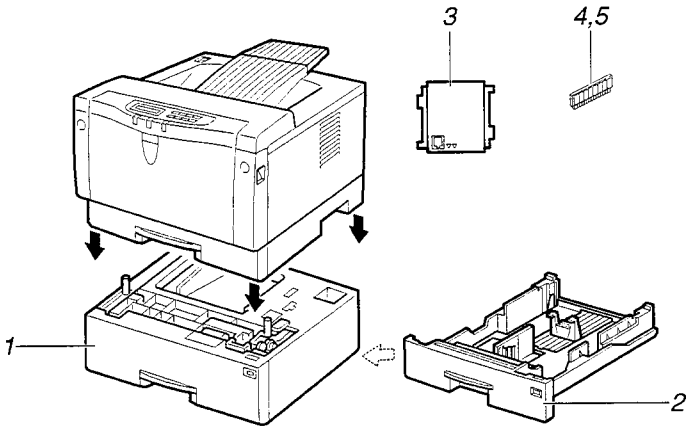
❒ The envelope feeder is a tray that slides into the optional paper feed unit. Without the optional paper feed unit, the envelope feeder cannot be used.

❒ The Type 1 Printer can have two optional paper feed units installed at a time. However the envelope feeder should be used in the top-most optional paper feed unit (tray 2). It cannot be used in the bottom-most paper feed unit (tray 3).

❖ For Type 2 Printer

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.



1. Paper Feed Unit Type 1400
2. Envelope Feeder Type 1400
3. Network Interface Board Type 2000
4. Memory Unit Type 204 (16MB) (SIMM)
5. Memory Unit Type 204 (32MB) (SIMM)

Note

❒ It is impossible to install more than one paper feed unit to your printer at a time.

Type 1 Printer: Installing Options

Type 1 Printer: Installing the Paper Feed Unit (DLT) Type 2000

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

❒ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt forward.

❒ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Check the contents of the box for the following items.

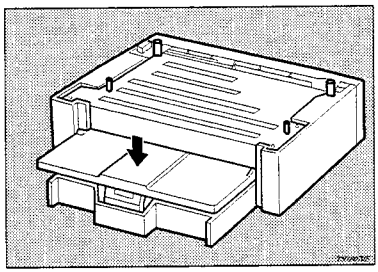
- Paper feed unit (including a paper tray)
- Tray cover
- Installation Guide

2 Be sure to check the following points:

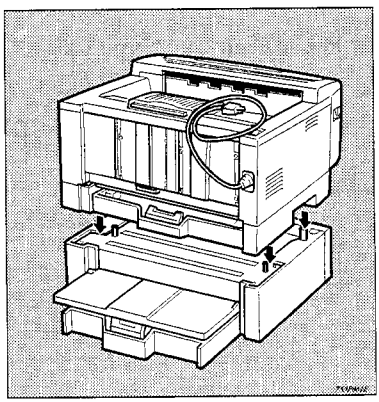
- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.
- The bypass tray and front cover are closed.

3 At the front of the paper feed unit, tape on the left and right sides is used to hold the tray in place. Remove both pieces of tape.

4 Attach the tray cover to the top of the paper tray as shown in the illustration.

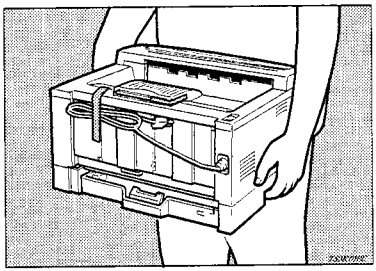


5 There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer are four holes. Align the holes over the pins and lower the printer gently onto the paper feed unit.



⚠ ***CAUTION:***

- *When lifting the printer, use the inset grips on both sides.*



Type 1 Printer: Installing the Paper Feed Unit (LT) Type 2000

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

❒ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt forward.

❒ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Check the content of the box for the following items.

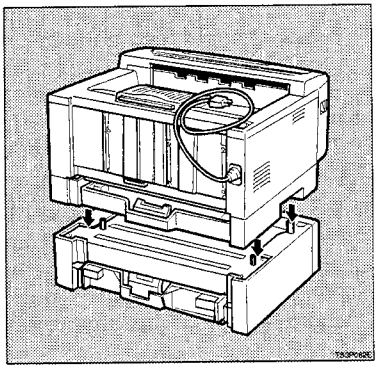
- Paper feed unit (including a paper tray)
- Installation Guide

2 Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.
- The bypass tray and front cover are closed.

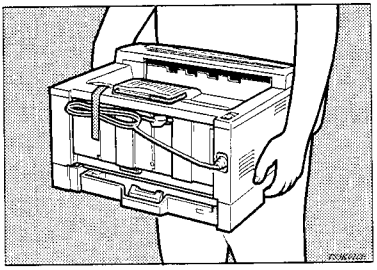
3 At the front of the paper feed unit, tape on the left and right sides is used to hold the tray in place. Remove both pieces of tape.

4 There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer are four holes. Align the holes over the pins and lower the printer gently onto the paper feed unit.



⚠ ***CAUTION:***

- *When lifting the printer, use the inset grips on both sides.*



Type 1 Printer: Installing the Envelope Feeder Type 2000

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

❒ This unit is a tray that slides into the optional paper feed unit. Without the optional paper feed unit, this envelope feeder cannot be used.

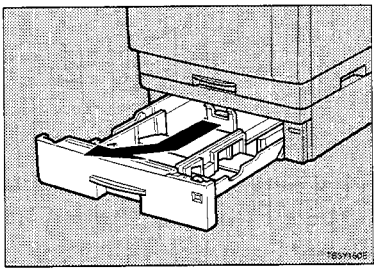
❒ The Type 1 Printer can have two optional paper feed units installed at a time. However, the envelope feeder should be used in the top-most optional paper feed unit (tray 2). It can not be used in the bottom-most paper feed unit (tray 3).

❒ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt toward.

1 **Check the content in the box for the following items.**

- **Envelope feeder**
- **Installation Guide**

2 **Pull out the 2nd paper tray (tray 2) of the optional paper feed unit until it stops. After that, lift it slightly, then pull it out.**



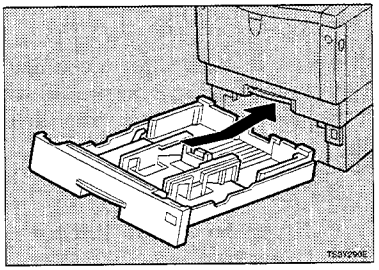
Important

❒ The envelope feeder should be used in the top-most optional paper feed unit (tray 2).

Note

❒ Keep the paper tray with paper in a cool and dry place.

3 **While lifting the front side of the envelope feeder, place the feeder into the printer. Then slide it into the printer until it stops.**



Note

❒ When loading envelopes, see P.82 *"Type 1 Printer: Loading Envelopes"*.

Type 1 Printer: Installing the Network Interface Board Type 2000

Note

- ❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.
- ❒ Use the shielded twisted-pair (STP) network interface cable.
- ❒ The network interface board can be attached to either the left or the right side of the back of your printer. This procedure is for attaching to the left side.
- ❒ You cannot install two network interface boards at a time.

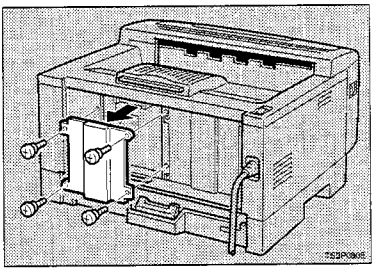
1 **Check the contents of the box for the following items.**

- **Network interface board**
- **CD-ROM**
- **Ferrite Core**
- **Installation Guide**
- **Quick Configuration Guide**
- **Additional Documentation**

2 **Be sure to check the following points:**

- **The printer's power switch is turned off.**
- **The power cord is unplugged from the wall outlet.**

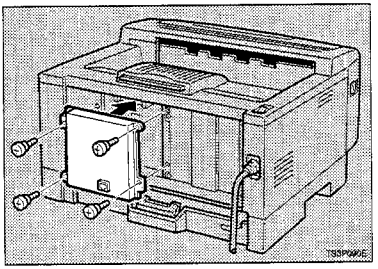
3 **Remove the back plate.**



Note

- ❒ A coin can be used to remove the screws.

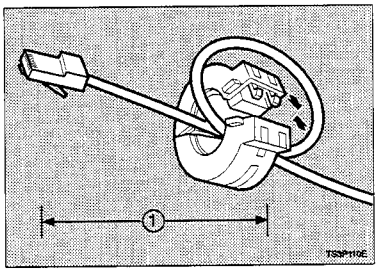
4 **Align the screw holes of the network interface board over the screw holes where the back plate used to be. Make sure that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should align and offer a slight resistance before popping into place.**



Note

- ❒ Use a coin to reattach the screws.

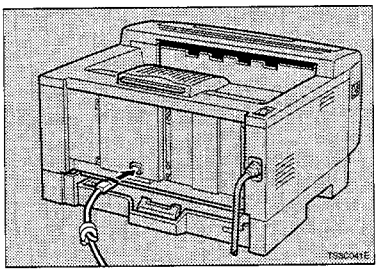
5 **Loop the network interface cable and attach the ferrite core as shown in the illustration.**



Note

❒ The network interface cable loop should be about 15 cm (6") (①) from the end of the cable (on the end closest to the printer). The ferrite core at the end of the cable should be a ring type ferrite core.

6 **Attach the network interface cable to the jack on the board as shown in the illustration.**



7 **Connect the other end of the network interface cable to the network.**

8 **Plug the printer's power cord back into the wall outlet and turn on the printer's power switch.**

The configuration page of the network interface board will be printed automatically. Check the configuration of the network interface board with it.

Important

❒ After installing the network interface board properly, set up the printer's network environment using the operation panel. See P.25 *"Configuring the Printer for the Network with the Operation Panel"*.

Type 1 Printer: Installing the Memory Unit (SIMM)

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

❒ The memory unit can be damaged by small amount of static electricity. Before touching it, touch something metal to remove static electricity from you.

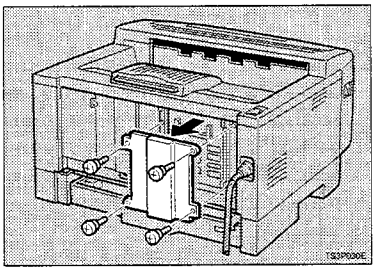
❒ To make the printer recognize the installed option, you should set up the option with the printer driver.

❒ This printer has one slot for a SIMM, and you can install one SIMM at a time.

1 **Be sure to check the following points:**

- **The printer's power switch is turned off.**
- **The power cord is unplugged from the wall outlet.**

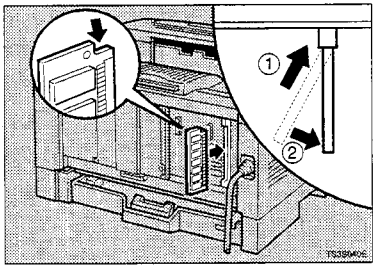
2 Remove the back plate.



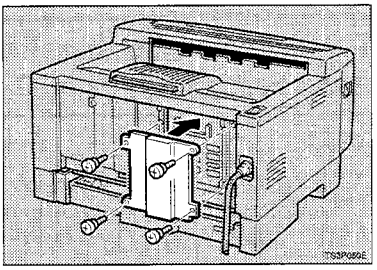
Note

❒ A coin can be used to remove the screws.

3 Make sure that the notch of the memory unit should be upward as shown in the illustration. Tilt the memory unit to the left so that it is in 45 degrees from perpendicular to the slot, and slide it into the slot (①). Tilt the memory unit so that it is perpendicular to the slot (②). It should make an audible click as it pops into place.



4 Attach the back plate to its original position.



Note

❒ A coin can be used to attach the screws.

5 Turn on the printer's power switch.

6 Print a configuration test sheet to confirm that the memory unit is properly installed.

Reference

⇒ P.121 *"Making Printer Settings with the Operation Panel"*

Type 2 Printer: Installing Options

Type 2 Printer: Installing the Paper Feed Unit Type 1400

2

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

❒ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt forward.

❒ To make the printer recognize the installed option, you should set up the option with the printer driver.

1 Check the contents of the box for the following items.

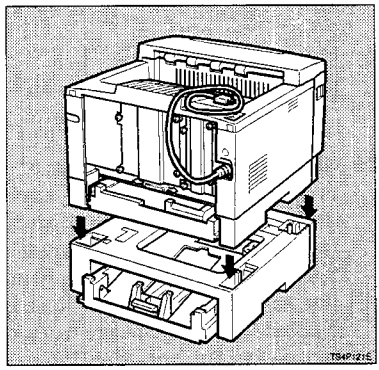
- Paper feed unit (including a paper tray)
- Installation Guide

2 Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.
- The bypass tray and front cover are closed.

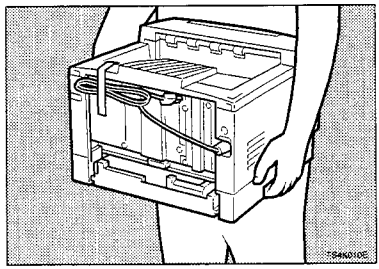
3 At the front of the paper feed unit, tape on the left and right sides is used to hold the tray in place. Remove both pieces of tape.

4 There are four pins on the top of the paper feed unit that point straight up. On the bottom of the printer are four holes. Align the holes over the pins and lower the printer gently onto the paper feed unit.

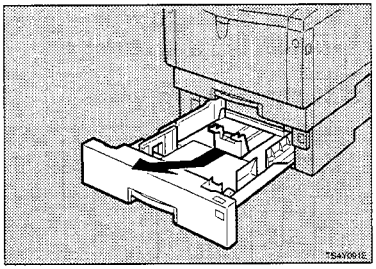


⚠ ***CAUTION:***

- *When lifting the printer, use the inset grips on both sides.*



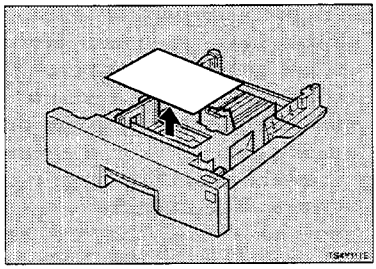
5 Pull the paper tray out until it stops. After then, lift it slightly, then pull it out of the printer. Place it on a flat surface.



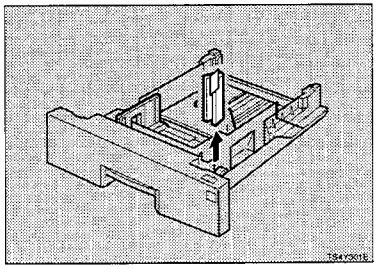
Note

❒ Do not touch the three white pins on the right front side of the paper feed unit.

6 Remove the white protective sheet from inside of the paper tray.



7 Remove the red protective sheet taped on the guide.



8 While lifting the front side of the paper tray, place it into the printer. Then slide it into the printer until it stops.

Type 2 Printer: Installing the Envelope Feeder Type 1400

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

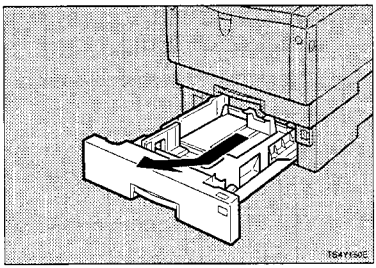
❒ This unit is a tray that slides into the optional paper feed unit. Without the optional paper feed unit, this envelope feeder cannot be used.

❒ Do not slide more than one paper tray out at a time. Having more than one paper tray filled with paper in a fully extended position could cause the machine to tilt toward.

1 Check the content of the box for the following items.

- Envelope feeder
- Installation Guide

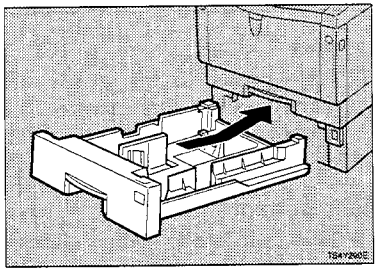
2 Pull out the paper tray of the optional paper feed unit until it stops. After that, lift it sightly, then pull it out.



Note

❒ Keep the paper tray with paper in a cool and dry place.

3 While lifting the front side of the envelope feeder, place the feeder into the printer. Then slide it into the printer until it stops.



Note

❒ When loading envelopes, see P.90 *"Type 2 Printer: Loading Envelopes"*.

Type 2 Printer: Installing the Network Interface Board Type 2000

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

❒ Use the shielded twisted-pair (STP) network interface cable.

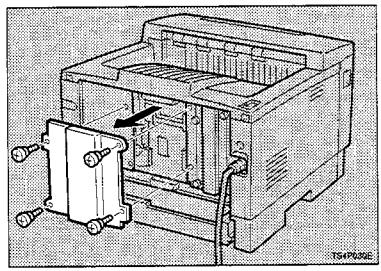
1 Check the contents in the box for the following items.

- Network interface board
- CD-ROM
- Ferrite Core
- Installation Guide
- Quick Configuration Guide
- Additional Documentation

2 Be sure to check the following points:

- The printer's power switch is turned off.
- The power cord is unplugged from the wall outlet.

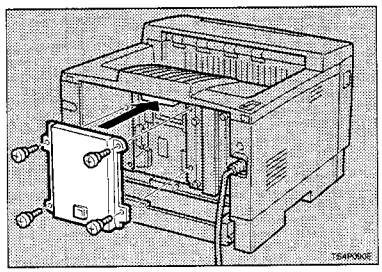
3 Remove the back plate.



Note

❒ A coin can be used to remove the screws.

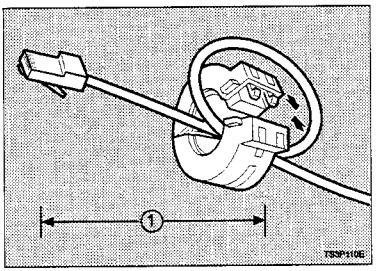
4 Align the screw holes of the network interface board over the screw holes where the back plate used to be. Make sure that the board is aligned so that the jack is facing out and is on the bottom. Press the board firmly against the printer. The interface connectors on the printer and the board should align and offer a slight resistance before popping into place.



Note

❒ Use a coin to reattach the screws

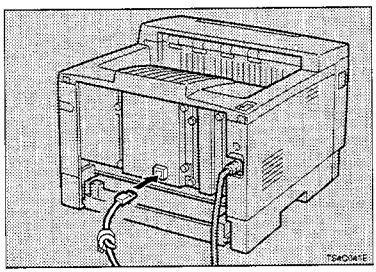
5 **Loop the network interface cable and attach the ferrite core as shown in the illustration.**



Note

❒ The network interface cable loop should be about 15 cm (6") (①) from the end of the cable (on the end closest the printer). The ferrite core at the end of the cable should be a ring type ferrite core.

6 **Attach the network interface cable to the jack on the board as shown in the illustration.**



7 **Connect the other end of the network interface cable to the network.**

8 **Plug the printer's power cord back into the wall outlet and turn on the printer's power switch.**

The configuration page of the network interface board will be printed automatically. Check the configuration of the network interface board with it.

Important

❒ After installing the network interface board properly, set up the printer's network environment using the operation panel. See P.25 *"Configuring the Printer for the Network with the Operation Panel"*.

Type 2 Printer: Installing the Memory Unit (SIMM)

Note

❒ Please refer to the inside of the front cover of this manual to confirm which printer (Type 1 Printer or Type 2 Printer) you have.

Important

❒ The memory unit can be damaged by small amount of static electricity. Before touching it, touch something metal to remove static electricity from you.

❒ To make the printer recognize the installed option, you should set up the option with the printer driver.

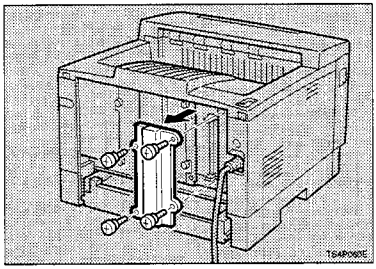
❒ This printer has one slot for a SIMM, and you can install one SIMM at a time.

1 **Be sure to check the following points:**

- **The printer's power switch is turned off.**
- **The power cord is unplugged from the wall outlet.**

2

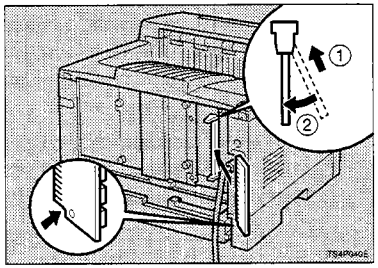
2 Remove the back plate.



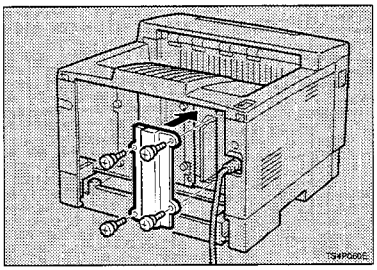
Note

❒ A coin can be used to remove the screws.

3 Make sure that the notch of the memory unit should be downward as shown in the illustration. Tilt the memory unit to the right so that it is in 45 degrees from perpendicular to the slot, and slide it into the slot (①). Tilt the memory unit so that it is perpendicular to the slot (②). It should make an audible click as it pops into place.



4 Attach the back plate to its original position.



Note

❒ A coin can be used to attach the screws.

5 Turn on the printer's power switch.

6 Print a configuration test sheet to confirm that the memory unit is properly installed.

Reference

⇒ P.121 *"Making Printer Settings with the Operation Panel"*

3. Configuring the Printer for the Network with the Operation Panel

Setting Up the IP Parameters

After installing the optional network interface board, configure it for the network using the printer's operation panel.

Reference

⇒ P.17 *"Type 1 Printer: Installing the Network Interface Board Type 2000"*

⇒ P.22 *"Type 2 Printer: Installing the Network Interface Board Type 2000"*

1 **Press [Menu].**

The following message appears on the panel display.

```
Main Menu:      ▲
 Job Control    ▼
```

2 **Press [▼][▲] until the following message appears.**

```
Main Menu:      ▲
 Host Interface▼
```

3 **Press [Enter].**

The following message appears on the panel display.

```
Host Interface:▲
1.Printer Lang.▼
```

4 **Press [▼][▲] until the following message appears.**

```
Host Interface:▲
1.Network Setup▼
```

5 **Press [Enter].**

The following message appears on the panel display.

```
Network Setup: ▲
1.IP Address   ▼
```

6 **Press [Enter].**

The current IP address appears on the panel display. A pointer (▮) blinks on the value to be specified.

```
IP Address: ▲▼+#
 000.000.000.000
```

7 **Specify the first (leftmost) 3 digits of the IP address using [▲] [▼]. Use [▲] to increase a value, and [▼] to decrease.**

```
IP Address: ▲▼+#
 100.000.000.000
```

8 **Press [Enter].**

A pointer (▮) moves to the second 3 digits.

Note

- ❒ Before pressing **[Enter]**, you can return the pointer (▮) to the previous (left) 3 digits by pressing **[Escape]**.
- ❒ If you press **[Escape]** when the pointer (▮) is on the leftmost 3 digits, the specified IP address is canceled and you can return to the previous panel display.

9 **Repeat steps 7 and 8 to specify the rest of the digits of the IP address.**

10 **Check if the pointer (▒) is at the rightmost digit, press [Enter] to register the IP address you specified.**

The following message appears on the panel display.

```
Network Setup: ▲
1.IP Address   ▼
```

11 **Press [▼][▲] until the following message appears.**

```
Network Setup: ▲
2.Subnet Mask  ▼
```

12 **Press [Enter].**

The current subnet mask appears on the panel display.

```
Subnet Mask:▲▼+#
 255.000.000.000
```

13 **Specify the subnet mask using the same procedure for specifying the IP address.**

14 **Check if the pointer (▒) is at the rightmost digit, press [Enter] to register the subnet mask you specified.**

The following message appears on the panel display.

```
Network Setup: ▲
2.Subnet Mask  ▼
```

15 **Press [▼][▲] until the following message appears.**

```
Network Setup: ▲
3.Gateway      ▼
```

16 **Press [Enter].**

The current gateway address appears on the panel display.

```
Gateway        ▲▼+#
 000.000.000.000
```

17 **Specify the gateway address using the same procedure for specifying the IP address.**

18 **Check if the pointer (▒) is at the rightmost digit, press [Enter] to register the gateway address you specified.**

The following message appears on the panel display.

```
Network Setup: ▲
3 .Gateway     ▼
```

19 **Press [On Line].**

The panel display returns to the ready condition as follows:

```
Ready
```

20 **Turn the printer's power switch off and on.**

4. Printer Drivers for Your Printer

Printer Drivers for Your Printer

Printing requires installation of a printer driver for your operating system. The following drivers are provided with this printer.

Emulation / Operating system	PCL 5e	PCL 6	PostScript Level2
Windows 95 *4	√	√	√ *1
Windows 98 *5	√	√	√ *1
Windows 3.1x *6	√	√	
Windows NT4.0 *7	√	√	√ *1
Macintosh			√ *1 *2 *3

*1 PPD (PostScript Printer Description) files are included in the CD-ROM.
*2 The optional network interface board is required.
*3 You can use the LaserWriter printer driver. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with your Macintosh for details on the LaserWriter functions.
*4 Microsoft® Windows® 95 operating system
*5 Microsoft® Windows® 98 operating system
*6 Microsoft® Windows® for Workgroups operating system Version 3.11
*7 Microsoft® Windows NT® Server network operating system Version 4.0, Microsoft® Windows NT® Workstation operating system Version 4.0

❖ PCL printer drivers

Printer drivers allow the computer to communicate with the printer via a printer language. Two kinds of PCL printer drivers, PCL 6 and PCL 5e, are provided with this printer. We recommend the PCL 6 as your first choice. However, some of your applications might require the installation of the PCL 5e printer driver. In this case, you can install PCL 5e in addition to the PCL 6.

⇒ P.29 *"Windows 95/98 - Installing the PCL 6/5e Printer Driver"*
⇒ P.30 *"Windows 3.1x - Installing the PCL 6/5e Printer Driver"*
⇒ P.32 *"Windows NT4.0 - Installing the PCL 6/5e Printer Driver"*

❖ PostScript Printer Description (PPD) files for Windows

The printer specific functions can be used by installing the PPD file specific for your printer.

⇒ P.37 *"Windows 95/98 - Installing the PostScript Printer Driver"*
⇒ P.40 *"Windows NT4.0 - Installing the PostScript Printer Driver"*

❖ **PostScript Printer Description (PPD) files for Macintosh**

PPD files, in combination with the LaserWriter driver, allow the computer to communicate with the printer. The printer specific functions can be used by installing a PPD file. You can use the LaserWriter printer driver that comes with your Macintosh. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with your Macintosh for details on the LaserWriter functions.

⇒ P.42 *"Macintosh - Installing the PPD File"*

5. Installing the PCL 6/5e Printer Driver

Installing the PCL 6/5e Printer Driver

This section provides basic procedures for installing the printer driver. The actual procedure differs somewhat depending on your operating system. Follow the right one of the procedures below.

We recommend the PCL 6 as your first choice. However, some of your application software might require the installation of the PCL 5e printer driver. In this case, you can install the PCL 5e in addition to the PCL 6.

Important

- ❒ When you set the print resolution to 300dpi, you should install the PCL 5e driver.
- ❒ When you set the printer resolution to 1200dpi, you should install the PCL 6 driver.
- ❒ When updating the printer driver by installing the latest version, you should uninstall the former version, if any.

Windows 95/98 - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Follow these steps to install the PCL 6/5e printer driver on your Windows 95/98 system:

1. **Insert the CD-ROM that comes with your printer in the CD-ROM drive.**
2. **Close all applications that are currently running.**
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the [Run] window, click [Browse].**
6. **Select the CD-ROM drive.**
7. **Open the folder called [PCL5E] or [PCL6].**
8. **Open the folder called [WIN31_95].**
9. **Open the folder of the appropriate language for your operating system.**
10. **Open the folder called [DISK1].**

11 Select the file titled [SETUP.EXE].

12 Click [Open].

13 Click [OK].

14 Follow the instructions on the screen.

15 If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.

16 Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window appears.

17 Select the icon of the printer you installed by clicking it.

18 On the [File] menu, click [Properties].

19 On the [General] tab, click [Print Test Page].

5

Important

❒ If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

Setting up options

1 Click [Start] on the task bar, point to [Settings], and then click [Printers].
The [Printers] window appears.

2 Select the icon of the printer you want to use by clicking it.

3 On the [File] menu, click [Properties].
The Printer Properties appears.

4 Click the [Accessories] tab.

5 Set up any options you have installed on your printer.

6 Click [OK].

Windows 3.1x - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Follow these steps to install the PCL 6/5e printer driver on your Windows 3.1x system:

1. Insert the CD-ROM that comes with your printer in the CD-ROM drive.
2. Close all applications that are currently running.
3. From the [Program Manager], select [Run] from the [File] menu.
4. In the [Run] window, click [Browse...].
5. Select the CD-ROM drive in the [Drives] list.
6. Open the folder called [PCL5E] or [PCL6].
7. Open the folder called [WIN31_95].
8. Open the folder of the appropriate language for your operating system.
9. Open the folder called [DISK1].
10. Select the file titled [SETUP.EXE].
11. Click [OK].
12. Click [OK].
13. Follow the instructions on the screen.
14. If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.

Important

- If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

Setting up options

1. From the [Main] group of the [Program Manager], open [Control Panel] by double-clicking it.
2. Double-click the [Printers] icon.
3. In the [Installed Printers] list box, click the name of the printer you want to use so its name is highlighted.
4. Click [Setup].
5. Click the [Accessories] tab.
6. Set up any options you have installed on your printer.
7. Click [OK].
8. Click [Close] to close the [Printers] dialog.

Windows NT4.0 - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Limitation

- Installing the printer driver requires full control access rights. To install the printer driver, log on as an Administrator or a Power Users group member.

1. Insert the CD-ROM that comes with your printer in the CD-ROM drive.
2. Close all applications that are currently running.
3. Click [Start] on the task bar.
4. Click [Run].
5. In the [Run] window, click [Browse].
6. Select the CD-ROM drive.
7. Open the folder called [PCL5E] or [PCL6].
8. Open the folder called [NT4].
9. Open the folder of the appropriate language for your operating system.
10. Open the folder called [DISK1].
11. Select the file titled [SETUP.EXE].
12. Click [Open].
13. Click [OK].
14. Follow the instructions on the screen.
15. If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.
16. Click [Start] on the task bar, point to [Settings], and then click [Printers].
    The [Printers] window appears.
17. Select the icon of the printer you installed by clicking it.
18. On the [File] menu, click [Properties].
19. On the [General] tab, click [Print Test Page].

Important

❒ If your printer is equipped with certain options (ex. paper feed unit or memory unit), you should set up the options with the printer driver.

Setting up options

1. Click **[Start]** on the task bar, point to **[Settings]**, and then click **[Properties]**.
   The **[Printers]** windows appears.
2. Select the icon of the printer you want to use by clicking it.
3. On the **[File]** menu, click **[Properties]**.
   The Printer Properties appears.
4. Click the **[Accessories]** tab.
5. Set up any options you have installed on your printer.
6. Click **[OK]**.

Uninstalling the PCL 6/5e Printer Driver

This section provides basic procedures for uninstalling the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow one of the procedures below.

Windows 95/98 - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

1. Insert the CD-ROM that comes with your printer in the CD-ROM drive.
2. Close all applications that are currently running.
3. Click [Start] on the task bar.
4. Click [Run].
5. In the [Run] window, click [Browse].
6. Select the CD-ROM drive.
7. Open the folder called [PCL5E] or [PCL6].
8. Open the folder called [WIN31_95].
9. Open the folder of the appropriate language for your operating system.
10. Open the folder called [DISK1].
11. Select the file titled [UNSETUP.EXE].
12. Click [Open].
13. Click [OK].
14. Follow the instructions on the screen.
15. If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the uninstallation.

Windows 3.1x - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the PCL 6/5e printer driver:

1. Insert the CD-ROM that comes with your printer in the CD-ROM drive.
2. Close all applications that are currently running.

3. From the [Program Manager], select [Run] from the [File] menu.
4. In the [Run] window, click [Browse...].
5. Select the CD-ROM drive in the [Drives] list.
6. Open the folder called [PCL5E] or [PCL6].
7. Open the folder called [WIN31_95].
8. Open the folder of the appropriate language for your operating system.
9. Open the folder called [DISK1].
10. Select the file titled [UNSETUP.EXE].
11. Click [OK].
12. Click [OK].
13. Follow the instructions on the screen.
14. If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the uninstallation.

Windows NT4.0 - Uninstalling the PCL 6/5e Printer Driver

Limitation

- Uninstalling the printer driver requires full control access rights. To uninstall the printer driver, log on as an Administrator or a Power Users group member.

1. Insert the CD-ROM that comes with your printer in the CD-ROM drive.
2. Close all applications that are currently running.
3. Click [Start] on the task bar.
4. Click [Run].
5. In the [Run] window, click [Browse].
6. Select the CD-ROM drive.
7. Open the folder called [PCL5E] or [PCL6].
8. Open the folder called [NT4].
9. Open the folder of the appropriate language for your operating system.
10. Open the folder called [DISK1].

11 Select the file titled [UNSETUP.EXE].

12 Click [Open].

13 Click [OK].

14 Follow the instructions on the screen.

15 If you are asked if you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.